

ABSTRACT OF THE DISCLOSURE

A process for concurrently fractionating and hydrotreating of a full range naphtha stream. The full boiling range naphtha stream, for example which is derived from fluid catalytic cracking, is first subjected to simultaneous hydrogenation of the thiophene contained therein and thioetherification and fractionation to remove the mercaptans the light fraction and then to simultaneous hydrodesulfurization and splitting of the bottoms into an intermediate boiling range naphtha and a heavy boiling range naphtha. The three boiling range naphthas are treated separately according to the amount of sulfur in each cut and the end use of each fraction.